KOROL'KOV, I.I., insh.

Advanced techniques for manufacturing boring jumpers. Energetik
10 no.12:20-21 D '62. (MIRA 16:1)

(Drilling and boring machinery)

KOROL'KOV, I.I., inah. Elimination of welding defects in high-pressure preheaters.

Energetik 11 no.2:8 F 61 (Steam turbines—Welding) (MIRA 16:3)

Redesigning of the piston group of steam-operated masut donkey pumps. Energetik 11 no.5:21-22 My '63. (MIRA 16:7) (Pumping machinery) (Boilers)

KOROL\*KOV, I.I., insh.

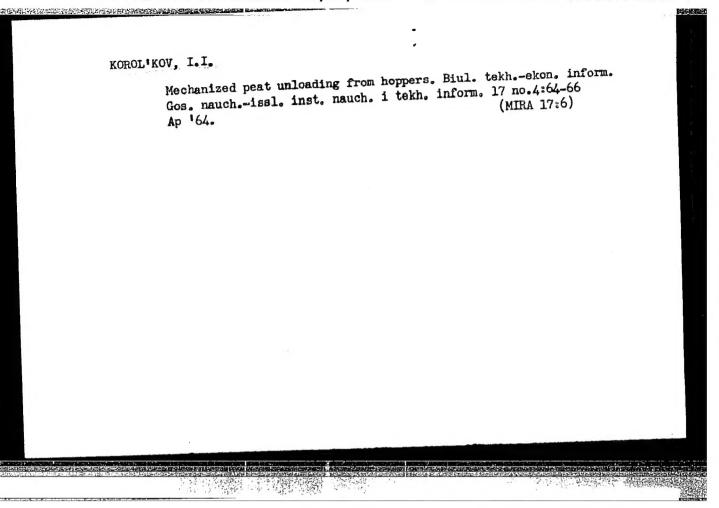
Overhead plug welding in boiler cyclene combustion chambers. Swar. proizv. no.1:35-36 Ja \*64. (MIRA 17:1)

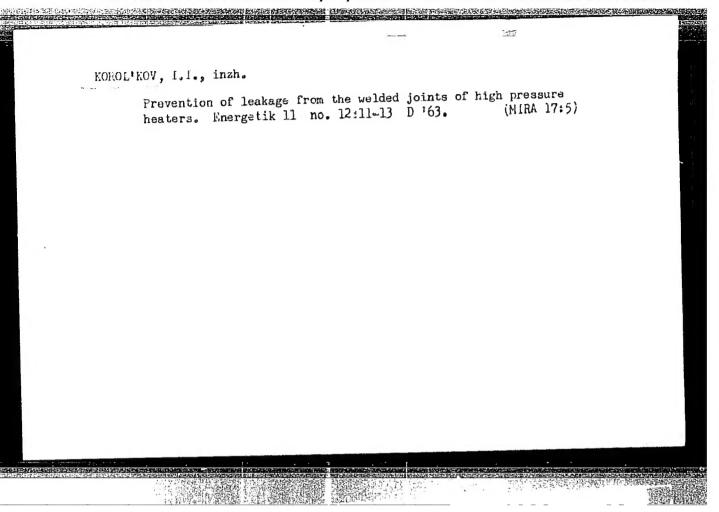
1. TSentral'noye proizvodstvennoye remontnoye predpriyatiye Leningradskogo rayonnogo upravleniya energeticheskogo khozyaystva.

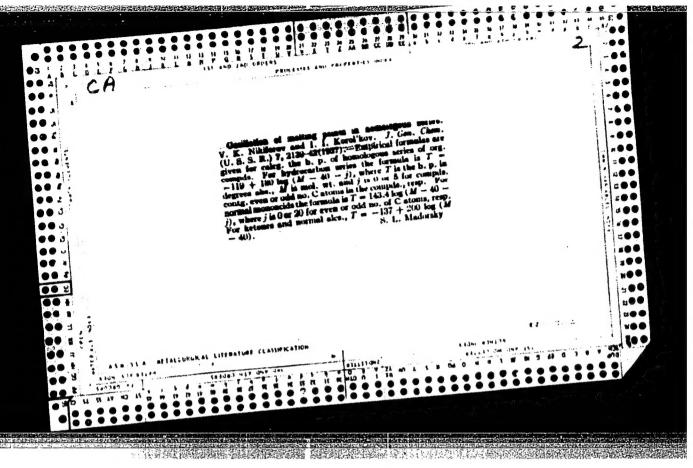
LIKHONOS, Ye.F.; KOROL'KOV, I.I.

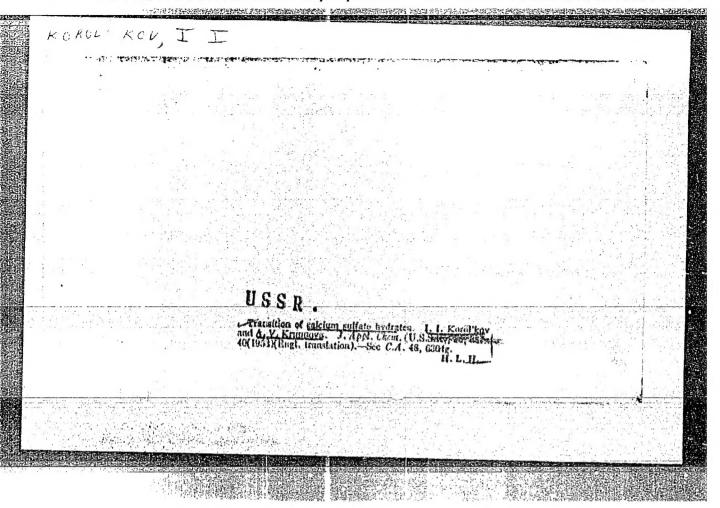
Simplified methodology for determining the amount of dextrins in hydrolyzates. Gidroliz. i lesokhim.prom. 17 no.2:18-19 '64. (MIRA 17:4)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidrollznoy i sul'fitno-spirtovoy promyshlennosti.







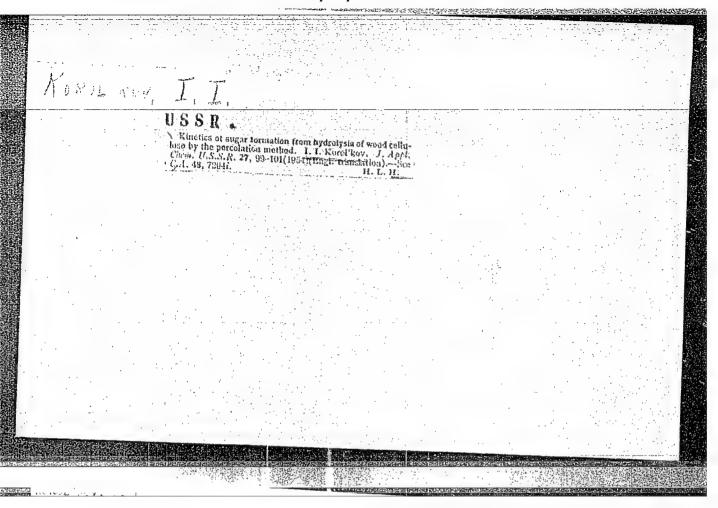


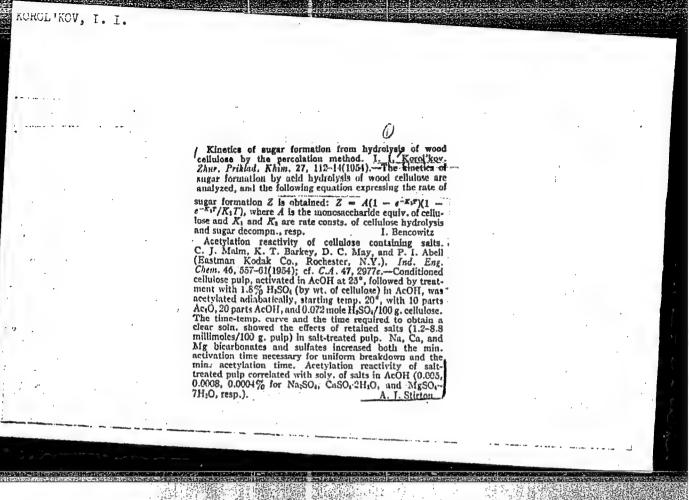
#### "APPROVED FOR RELEASE: 06/14/2000

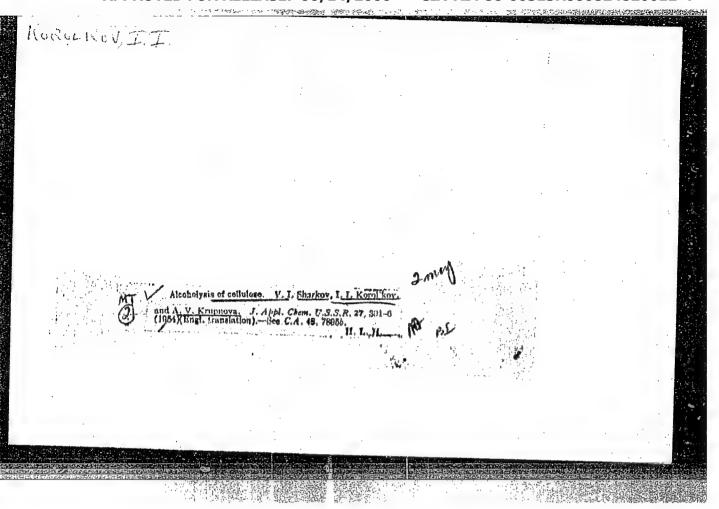
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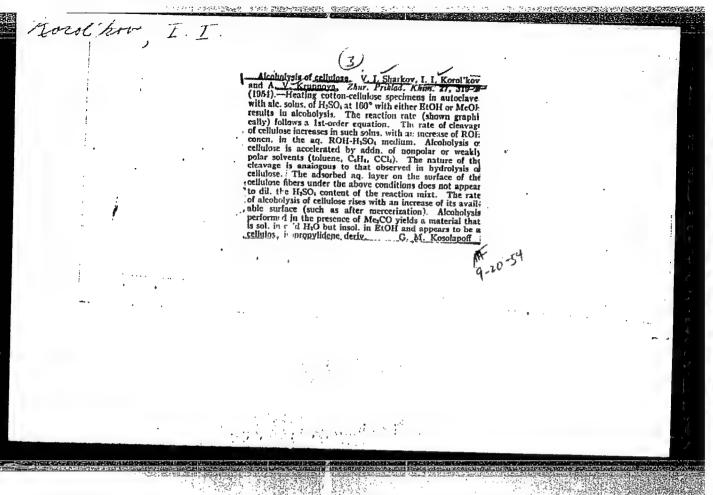
Journal of T.e Asserican Cerumic Society June 1, 1954.
Cerento, Limes and Platters

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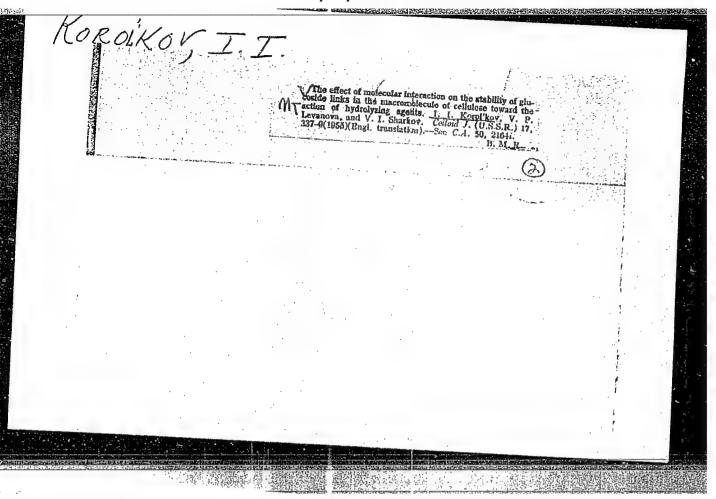




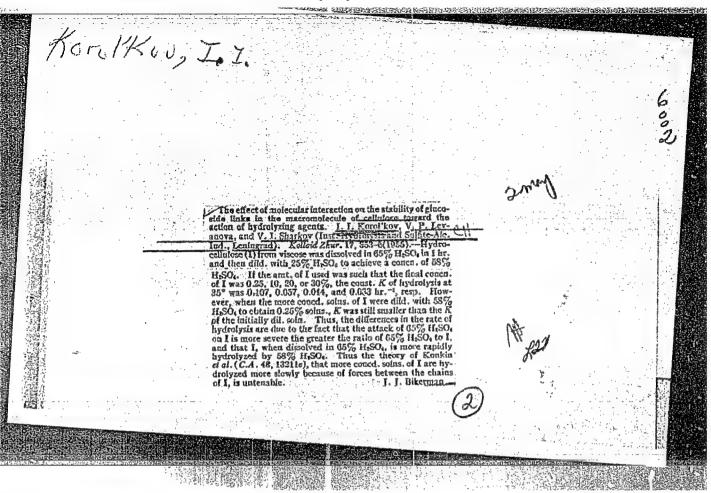
KOROL'KOV, I.I.; SHARKOV, V.I.; GARMANOVA, Ye.M.; KRUPNOVA, A.V.

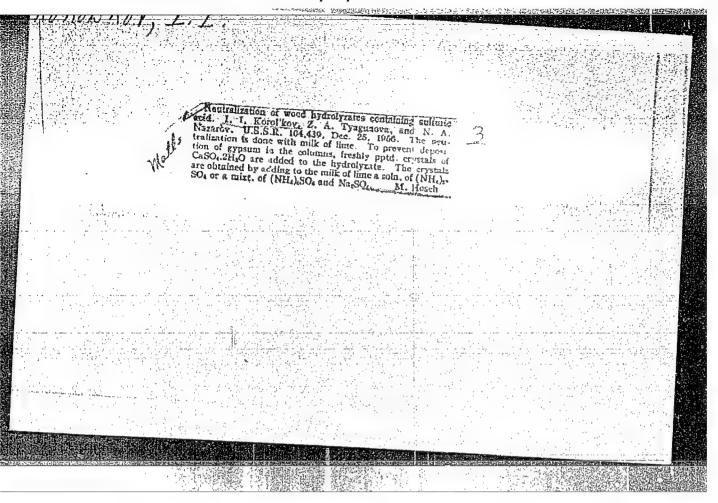
Effect of the hydromodulus on the rate of hydrolysis of wood cellulose. Gidroliz. i lesokhim. prom. 8 no.6:14-15 '55. (MIRA 9:1)

l. Vsesoyusnyy nauchno-issledovatel'skiy institut gidrolisnoy i sul' fitno-spirtovoy promyshlennosti.
(Hydrolysis) (Cellulose)



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SHARKOV, V.I.; KOHOL'KOV, I.I.; GARMANOVA, Ye.N.

Increasing the sugar yield from weed hydrolysis by means of preliminary grinding of the weed. Gidrelis. 1 lesekhim.pres.
9 no.1:6-8 '56.

(NIRA 9:6)

1. Vsecoyusnyy nauchne-issledovatel'skiy institut gidrelismoy i sulfitmo-spirtovoy promyshlenmosti.

(Hydrolysis)

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KOROL'KOV. I.I.; TYAGUROYA, Z.A.

Neutralization of hydrolysates with centrolled crystallization of gypsum. Gidrolis. 1 lesokhim.prom. 9 no.5:3-5 156.
(NIRA 9:11)

l. Vsesoysnyy nauchno-issledovatel\*skiy institut gidrolisnoy i sul\*fitno-spirtovoy promyshlennosti.
(Hydrolysis) (Gypsum)

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(MLRA 10:2)

KOROL'KOV, I.I.; TYAGUNOVA, Z.A. Effect of colloids on the crystallization of gypsum. Gidrelis. i lesokhim. prom. 9 no.8:8-9 '56.

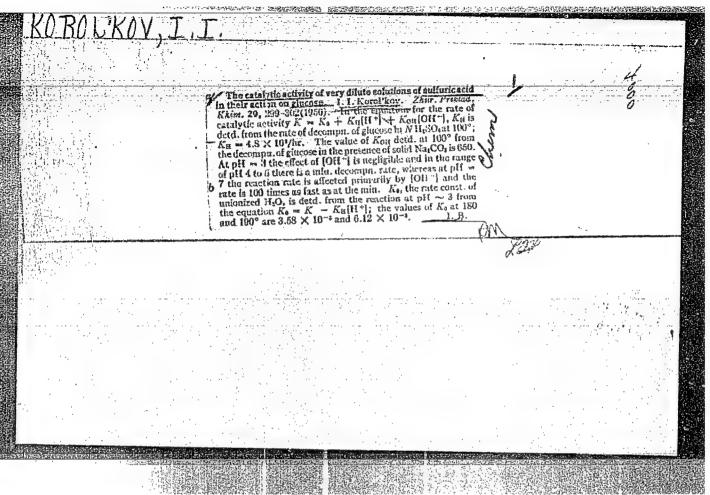
> 1. Vsesoyuznyy nauchno-issledovatel skiy institut gidrolisnoy i sul'fitno-spirtovoy promyshlennosti. (Colloids) (Crystallisation) (Gypsum)

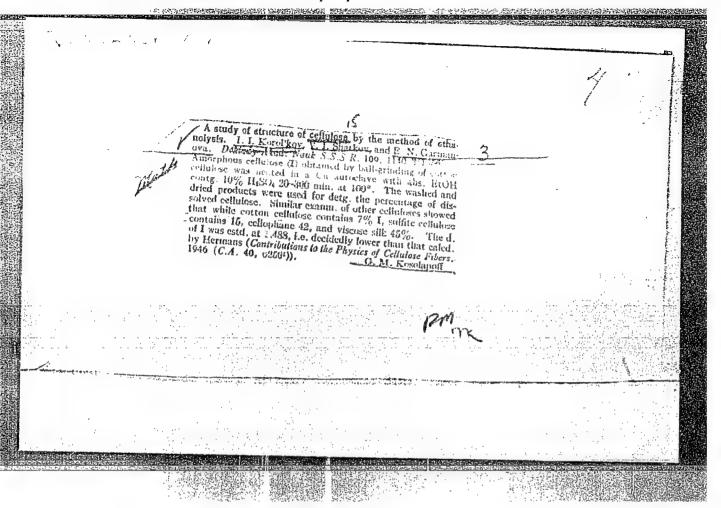
KOROL'KOV, I.I.: TYAGUNOVA, Z.A.; LIKHONOS, Ye.F.

Rate of crystallization of gypsum during the continuous neutralization of hydrolysates. Gidroliz.i lesokhim.prom.
12 no.6:4-6 159. (MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel skiy institut gidroliznoy i sul'fitnospirtovoy promyshlennosti.
(Gypsum) (Hydrolysis)

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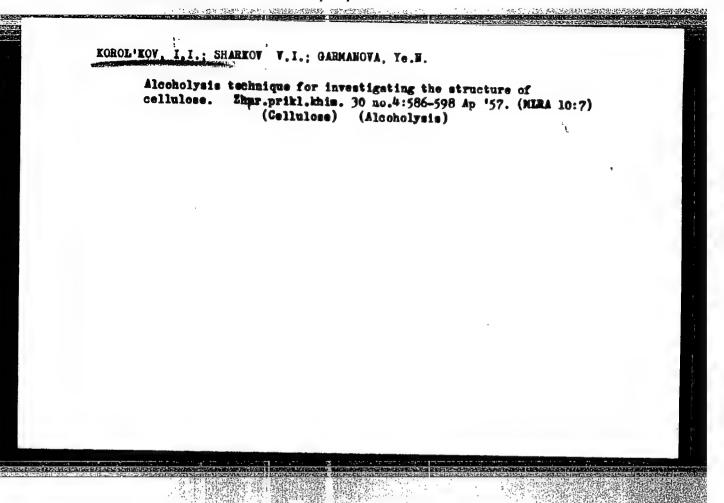


KOROL'KOY, I.I.; SHARKOY, V.I.; KRUPKOYA, A.V.

THE STREET, THE WHITEHOUSE SHEETS

Causes for retarded reaction in the hydrolysis of vegetable cell polysaccharides at a lew hydromodulus. Gidrolis. i lesokhim.prom. 10 no.1:8-10 '57. (MIRA 10:4)

l. Vsesoyusnyy nauchno-issledovatel'skiy institut gidrolisnoy i sul'fitno-spirtovoy promyshlennosti. (Polysaccharides) (Hydrolysis)



SHARKOV, V.I.; KOROL'KOV, I.I.; GARMANOVA, Ye.N. The "limit" polymerization degree of cellulose. Zhur. prikl. khim. 30 no.11:1668-1672 N '57. (Gellulose) (Polymerization)

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CIA-RDP86-00513R000824820012-4" APPROVED FOR RELEASE: 06/14/2000

KCTCL'KOV, I.I., KRUPNOVA, A.V.; GARMANOVA, Ye.N.; IVLIYEVA, Ye.A.

Effect of the diffusion of sugar on its yield in percolation hydrolysis of wood. Gidrolis. i lesokhim. prom. 11 no.2:1-5

'58.

1. Vesecyusnyy nauchno-iseledovatel'skiy institut gidrolisnoy i sul'fitne-spirtovoy promyshlennosti.

(Sugar) (Hydrolysis)

KOROL'KOY, I.I.; TYAGUNOVA, Z.A.; IVLIYEVA, Ye.A.; RYABOVICH, V.I.; PAPASHNIKOV, L.M.

Compression of the Compression o

Kinetic method of evaluating systems of percolation hydrolysis of sawdust. Gidroliz. i lesekhim. prem. 11 no.6:3-6 '58.

(MIRA 11:10)

l. Vsesoyusnyy nauchne-issledovatel'skiy institut gidrolisnoy i sul'fitne-spirtovey premyshlennesti.

(Hydrelysis)

KOROL'KOV, I.I.; KRESTAN, E.Sh.; PAPASHNIKOV, L.M.; PARAMONOVA, G.D.;

Hydrolysis with co-ordinated reaction parameters and the return of the tail hydrolysate to charge. Gidrolis. i lesokhim.prom. 11 no.7:20-24 \*58. (MIRA 11:11)

1. Vsesoyuznyy nauchno-issledovatel skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for all except Efros). 2. Segezhskiy gidroliznyy savod (for Efros)

(Hydrolysis)

SHARKOV, V.I.; KOROL'KOV, I.I.; KRUPNOVA. A.V.

Transforming woodpulp and wood into a readily hydrolyzable state by the action of Y-rays. Gidroliz. 1 lesokhim.prom. 11 no.8:324: 58. (MIRA 11:12)

l. Vsesoyusnyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti. (Woodpulp) (Gamma rays--Industrial applications) (Hydrolysis)

KOROL'KOV, I.I.; SHARKOV, V.I.; KRUPMOVA, A.V.

Study of the "recrystallization" phenemens in cellulese. Zhur. prikl. khim. 31 no.10:1560-1565 0 '58. (MIRA 12:1) (Cellulese) (Crystallization)

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; RYAZANTSEV, N.V.; PETI, P.K.;
MEDVEDRY, S.F.; LYUKHAROV, O.F.

Continuous neutralisation of hydrolysates. Gidrolis.i lesokhim.prom. 13 no.1:17-20 '60. (MIRA 13:5)

1. Nauchno-issledovatel'skiy institut gidrolisnoy i sul'fitnospirtovoy promyshlennosti (for Korol'kov, Tyagunova, Ryasantsev, Peti). 2. Tavdinskiy gidrolisnyy savod (for Medvedev).

3. Krasnodarskiy gidrolisnyy savod (for Igukhanov). (Krasnodar--Wood-using industries--Equipment and supplies) (Hydrolysis)

KOROL'KOV, I.I.; KAL'MANOVICH, S.L.; VITEL'S, V.L.; EFROS, I.N.

Introducing automatic control for the stabilization of hydrolysis processes. Gidrolis.i lesokhim.prom. 13 no.4: 11-14 \*60. (MIRA 13:7)

1. Mauchno-issledovatel'skiy institut gidrolisnoy i sul'fitnospirtovoy promyshlennosti (for Kal'manovich). 2. Segezhskiy gidrolisnyy savod (for Mfros). (Segezha-Hydrolysis) (Automatic control)

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77655 SOV/80-33-2-30/52

AUTHORS:

Korol'kov, I. I., Paramonova, G. D., Huo Yuan-Lu

TITLE:

Comparative Characteristics of the Hydrolysis Rate of Polysaccharides Found in Various Kinds of Vegetable

Raw Materials

PERUODICAL:

Zhurnal prikladnoy khimii, 1960, Vol 33, Nr 2,

pp 431-438 (USSR)

ABSTRACT:

The hydrolysis of easily hydrolyzed polysaccharides, found in hemicelluloses of various vegetable materials, consists of two stages, namely, the dissolution to dextrins, and the hydrolysis of dextrins to the monosaccharide stage. The hydrolysis of various materials (cotton husk, bagasse, corncobs, fir wood, birch wood,

etc.) was conducted at 100° in the presence of 2-4% sulfuric acid solution. The hydrolyzate was filtered and subjected to additional hydrolysis. The difference between the amounts of the reducing substances deter-

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mined before and after the second hydrolysis was considered as the amount of dextrins. The hydrolysis

Comparative Characteristics of the Hydrolysis Rate of Polysaccharides Found in Various Kinds of Vegetable Raw Materials 77655 SOV/80-33-2-30/52

rate of the callulose was determined in the material after the elimination of the easily hydrolyzed polysaccharides. The reaction was conducted at

180°C in the presence of 0.5% sulfuric acid solution. It was found that the hydrolysis rate of the easily hydrolyzed polysaccharides was in direct proportion to the acid concentration, and that it was hundreds or thousands of times larger than the hydrolysis rate of cellulose. Corncob polysaccharides dissolved much more quickly than all other; then cotton husk, fir wood, bagasse, and rust polysaccharides. The slowest to dissolve were the sunflower seed husk, birch- and beech-wood polysaccharides. The hydrolysis rate constants of the individual fractions were determined by means of the formula:

 $K_{\mathbf{F}} = \frac{2.3}{t} \lg \frac{a}{a - x}$ 

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Comparative Characteristics of the Hydrolysis Rate of Polysaccharides Found in Various Kinds of Vegetable Raw Materials 77655 **SO**V/80-33-2-30/52

where  $K_F$  is the solubility rate constant of the 10% polysaccharide fractions of the hemicelluloses; t is the solution time of this fraction; a is the amount of undissolved polysaccharides remaining after the dissolution of the preceding fraction; and x is the 10% fraction. The various fractions underwent hydrolysis at different rates. For example, the most easily hydrolyzed fraction of corncob polysaccharides was hydrolyzed 10 times faster than its least hydrolyzable fraction. The only exception was beechwood, all of whose fractions had identical  $K_F$  values. A. Anisimova took part in the experimental part of this study. There are 4 figures; 5 tables; and 4 Soviet references.

SUBMITTED:

Card 3/3

KOROL'KOV . I.I.; PARAMONOVA, G.D.

Content of the easily hydrolymable fraction of cellulose in wood-pulp. Zhur. prikl. khim. 33 no.12:2739-2743 D '60. (MIRA 14:1) (Cellulose)

KOROL'KOV, I.I.; KRESTAN, E.Sh.; BATIKOV, L.S.; ZOTAGINA, S.A.

Relation between the value of the hydrolysis module for the hydrolysate yield on the plant production capacity and costs. Gidrolis. i lesokhim. prom. 14 no. 1:19-22 '61. (MIRA 14:1)

1. Huchno-issledovatel'skiy institut gidroliznoy i sul'fitnospirtovoy promyshlennosti (for Korol'kov, Krestan). 2. Lobvinskiy gidroliznyy savod (for Batikov, Zotagina). (Wood-Chemistry) (Hydrolysis)

KOROL'KOV, I.I., ZAYTSEV, B:M. [deceased]; SHARKOV, V.I.; VAYNER, A.S.; EFROS, I.N.; EFROS, V.A.; BUBNOVA, N.I.

Percolation hydrolysis with a variable flow of liquid. Gidroliz.
i lesokhim.prom. 14 no.2:10-14 \*61. (MIRA 14:3)

1. Nauchno-issledovatel skiy institut gidroliznoy i sul'fitnospirtovoy promyshlennosti (for Korol'kov, Zaytsev, Sharkov, Vayner). 2. Segezhakiy gidroliznyy zavod (for I. Efros, V. Efros, Bubmova).

(Mydrolyment (Percolation) (Wood-Chemistry)

KOROL'KOV, I.I.; TYAGUNOVA, Z.A.; LIKHONOS, Ye.F.

Rate of crystallization of plaster of Paris from supersaturated solutions at various temperatures. Zhur. prikl. khim. 34 no.1: 120-125 Ja '61. (MIRA 14:1)

(Plaster of Paris)

KORCL'KOV, I.I.; TYAGUNOVA, Z.A.; POLIVANNYY, V.I., nauchn. red.;

PETRENKO, V.M., tekhn. red.

[Continuous neutralization of hydrolysates] Nepreryvnaia neitralizatsiia gidrolizatorov. Moskva, TSentr. in-t tekhn. informatsii i ekonom. issl. po lesnoi, bumazhnoi i derevoobrabatyvaiushchei promyshl., 1963. 31 p. (MIRA 16:9)

(Hydrolysis) (Lime)

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KOROL'KOV, I.I.

Varying hydrolysis rate of easily hydrolyzable polysaccharides from hemicelluloses of vegetable tissue. Zhur. prikl. khim. 34 no.5:1139-1142 My '61. (MIRA 16:8)

(Hydrolysis) (Polysaccharides)

KOROL'KOV, I.I.; LIKHOVID, R.D.

Simplified method for determining sparingly hydrolyzable polysaccharides in lignin. Gidroliz. i lesokhim. prom. 15 no.7:10-11 '62. (MIRA 16:8)

l. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitnospirtovoy promyshlennosti.
(Lignin) (Hydrolysis)

KOROL'KOV, I.I.; KRESTAN, E.Sh.; UL'YANOVSKAYA, R.I.

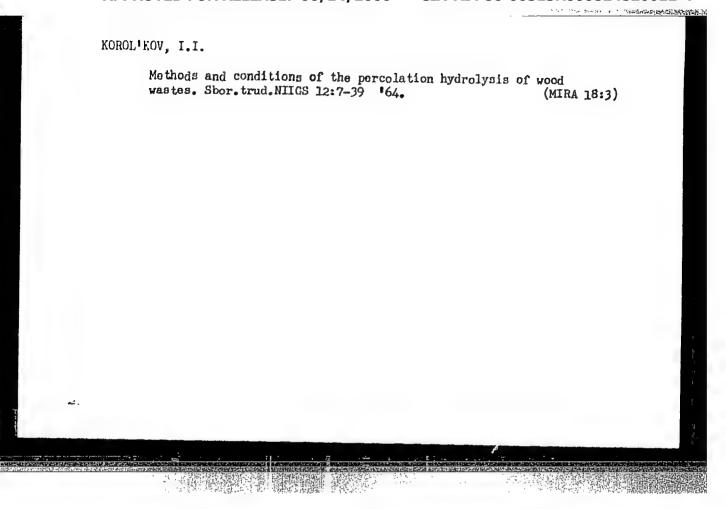
Introducing a hydrolysis method with alternate flow. Gidroliz.
i lesokhim. prom. 15 no.7:12-14 '62. (MIRA 16:8)

(Hydrolysis)

# KOROL\*KOV, I.I.

Analyzing the ways for the development of the technology of continuous hydrolysis methods. Gidroliz. i lesokhim.prom. 15 no.1:3-4 \*62. (MIRA 18:3)

1. Gosudarstvennyy nauchno-issledovatel\*skiy institut gidroliznoy i sul\*fitno-spirtovoy promyshlennosti, Leningrad.



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KOROL'KOV, I.I.; LIKHONOS, Ye.F.; UL'YANOVSKAYA, R.I.; LIKHOVID, R.D.

Investigating the characteristics of the hydrolysis of easily hydrolized polysaccharides. Gidroliz. i lesokhim. prom. 17 no.7: 4-7 '64. (MIRA 17:11)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti, Leningrad.

Investigating the process of sugar extraction in particular hydrolysis, Gidroliz, i lesokhim.prom. 18 no.1:3-5 '05.

(MTRA 18:3)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut giardizmoy i sul'fitno-spirtovoy promyshlennosti.

LIKHONOS, Ye.F.; KOROL'KOV, I.I.

Determination of the quantity of soluble polysaccharides.

Determination of the quantity of solution polysaconal in hydrolyzates. Zhur. prikl. khim. 36 no.5:1152-1154
My '63. (MIRA 16:8)

(Polysaccharides) (Hydrolysis)

KOROL'KOV, I.I.; STRIZHEVSKAYA, I.S.; LIKHOVID, R.D.; PARAMONOVA, G.D.; ZYBIN, S.Ye.; BATIKOV, L.S.; DOLGOKHVOSTOV, I.A.

Experiments in the production of hydrolysates for growing yeast at the Ivdel' Hydrolysis Plant. Gidroliz. i lesokhim. prom. 16 no.5:3-7 '63. (MIRA 17:2)

1. Gosudarstvennyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for Korol'kov, Strizhevskaya, Likhovid, Paramonova). 2. Ivdel'skiy gidroliznyy zavod (for Zybin, Batikov, Dolgokhvostov).

KOROL'KOV, I.I., inch.

Mechanization of the hoisting and placement operations of ferroboron guard plates in the spirals of boiler flue gas pumps. Energetik 12 no.2:15-16 F '64. (MIRA 17:4)

KOROL'KOV, I.I., inzh.

Treatment of the sealing surfaces of high-pressure latches

built-up with "sormait No.1" solid alloy. Energetik 12 no.3: 18-19 Mr '64. (MIRA 17:4)

KOROL'KOV, I.I., inzh.

Angular drilling machine. Energetik 12 no.7:23-24 Jl '64. (MIRA 17:9)

ABUZOV, Abdrakhman Goneeyvich; SOLDATOV, Konstantin Favlovich; KOROL\*KOV, I.I., red.

[Soviet of master workmen of a plant; practices of master workmen at the "Elektrosila" Plant] Sovet masterov pred-priiatiia; iz opyta raboty s masterami na zavode "Elektrosila" im.S.M.Kirova. Leningrad, 1964. 23 p.

(MIRA 18:1)

KOROL'KOV, Tale, inch.

Energetik no.9:12-13 S \*64. (MIRA 17:10)

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CIA-RDP86-00513R000824820012-4

KOROL'KOV, I.I., doktor tekhn.nauk

Urgent problems in improving the technology of hydrolysis and alcohol production. Gidroliz. i lesokhim.prom. 17 no.8:4-6 64. (MIRA 18:1)

#### "APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000824820012-4

KRESTAN, E.Sh.; KOROL'KOV, I.I.

Investigating the process of sugar separation in case of the use of a side feeding tube for percolation. Gidroliz. i lesokhim. 18 no.2:6-9 \*65. (MIRA 18:5)

1. Gosudarstvennyy nauchno-issledovatel skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti, Leningrad.

KOROL'KOV, I.I., LIKHONOS, Ye.F.

Composition of the roducing nonsugars of hydrolyzates. Gldroliz.
i lesokhim. prom. 18 no.3:9-12 '65. (MIRA 18:5)

1. Vsesoyuznyy naucyno-issledovatel'skiy inschtul gidrotekhnicheskikh i samitarno-tekhnicheskikh rabot.

KOROL'KOV, I.I.; LIKHONOS, Ye.F.; BOBOREKO, E.A.; DRUBLYANETS, E.E.; KARDASH, F.G.; NORINA, A.Ye.

Industrial testing of the technology of yeast propagation on inverted hydrolyzates. Gidroliz. i lesokhim. prom. 18 no.5:4-6 '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidroliznoy i sul'fitno-spirtovoy promyshlennosti (for Korol'kov, Likhonos, Boboreko, Drublyanets). 2. Tavdinskiy gidroliznyy zavod (for Kardash, Norina).

LIKHONOS, Ye.F.; KOROL'KOV, I.I.

Analyzing the inversion of wood hydrolyzates. Gidroliz. i lesokhim. prom. 18 no.6:3-4 '65. (MIRA 16:9).

1. Vsesoyuznyy nauchno-issledovatel skiy institut gidroliznoy i sul fitno-spirtovoy promyshlennosti.

KOROL'KOV, I. V.

KITAYTSEV, V.A.; GURVICH, R.M.; KOROL KOV, I.V.: GINZBURG, D.B., doktor tekhnicheskikh nauk, professor, retsenzent; NOKHRATYAN, K.A., kandidat tekhnicheskikh nauk, redsktor

[Heat engineering and heating installations in the building materials industry] Teplotekhnika i teplovye ustanovki v promyshlennosti stroitel'nykh materialov. 3-e isd. perer. i dop. Moskva. Gos. isd-vo lit-ry po stroitel'nym materialam, 1954. 495 p. (MIRA 8:4) (Heat engineering) (Building materials industry)

ACCESSION NR: AP4007915

\$/0108/63/018/012/0066/0067

AUTHOR: Korol'kov, I. V.

TITLE: Design and construction of double dielectric coaxial lines

SOURCE: Radiotekhnika, v. 18, no. 12, 1963, 66-67

TOPIC TAGS: coaxial line, double dielectric coaxial line, coaxial feeder, feeder, coaxial transmission line, nonresonant feeder, cannon plug, plug-type connector, feeder connector, dustproof connector, waterproof connector

ABSTRACT: In transmitting large rf power, air-dielectric lines have a heavier cross-section than the r-f cable. A coupler used to connect the two must have the same electric strength as the elements connected by it. For this the space in the coupler must be filled with a solid dielectric. Such a coupler is shown in Enclosure 1. Formulas for the characteristic impedance of and field strength in a two-dielectric line are given, and design requirements ensuring reliability are formulated. Orig. art. has: 2 figures and 6 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 07Jan64

ENGL: 01

SUB CODE: CO

NO REF SOV: 003

OTHER: 000

Carry A.Z

	Licoli-65 EN(d)/ENT(1)/EEO(f)/EED-2/ENA(h)/ENP(1) Pg-1/Fi-1/Fk-1/Fo-1/Fo-1/Fob TJP(c) GO/BB  ACCESSION NR: AP5010947  AUTHORS: Yekubovich, A. M.; Korol'kov, I. V.; Braslavskiy, B. A.; Bubnov, I. Mironov, B. V.  TITLE: Operational amplifier. Class 42, No. 169878  SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 7, 1965, 131  TOPIC TAGS: amplifier  ABSTRACT: This Author Certificate presents an operational amplifier with pa amplification channels and with automatic compensation of zero drift. To in its reliability and accuracy of operation, it contains no less than three and its reliability and accuracy of operation, it contains no less than three and its reliability and accuracy of operation, it contains a decomplifier with operation the amplification mode. Each channel contains a de amplifier with operation as storage capacitor. To decrease the effect of a constant spurious signal a storage capacitor. To decrease the effect of a constant spurious signal breakdown of one of the channels, each channel contains a decoupling capacitornecting the amplifier output of the particular channel through a resisting switching unit to the common output of the operational amplifier. The switching unit to the common output of the operational amplifier. The switching unit to the common output of the operational amplifier.	rallel crease aplification are sion it with the store and a ching
	unit discharges the decoupling capacitor in the zero discharges	
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KOROL'KOV, I. V	Total Section 1	• • • •			3.9 B
"Estimation of I Electronics Devi	ces of Fai	lure-Free Operation	on of Monredun	dant Radio	-
Moscow, Elektros	vyaz, No 8, 66,	pp 70-74	,	;	
to be expected i ble during which cable for calcul system with a co reliability of t culate the proba Orig. art. has: ORG; none	n nonredundant de the device fulfication of reliability nonrestored and main device. The main device. The formulas and 2	to presented to clon, the frequency swices where brief lls its functions ity parameters for eserve whose reliance formulas preserve operation with tables. TPRS:	interruption interruption The formula r a duplicate ability differented can be a ith an error of 38,490	y of failures s are permissis as are applis d restored rs from the	
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ULU73

S/120/60/000/02/026/052 E041/E421

24,3400

Korol'kov, I.Ya. and Burgov, N.A.

**AUTHORS:** 

Automatic Equipment for Measuring Spectra with a

TITLE: Magnetic Spectrometer

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, Nr 2,

pp 99-103 (USSR)

Intended for Compton spectrometry, the apparatus does the following: 1 stabilizes the magnetic field within ABSTRACT:

2 automatically

the range 150 to 1480 oersted;

maintains a given field for a given time; 3 automatically sets the field in steps of 2.6, 5.2 or 10.4 cersted over the whole range of variation. in Fig 1 shows the field pick-off and high-frequency oscillator; the magnet stabilizing loop; the field "sweeping" circuit which provides the independent variable for the spectrum; the interval timer. The field pick-off is a conventional nuclear-magneticresonance device and consists of a polystyrene cylinder

holding 7 cc of decimolar MnSO4. Five coils are used to

cover the range of fields and their details are tabulated on p 99. The width of the absorption line

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**APPROVED FOR RELEASE: 06/14/2000** C249RDP86-00513R000824820012-4

> S/120/60/000/02/026/052 E041/E421

Automatic Equipment for Measuring Spectra with a Magnetic Spectrometer

> is 0.5 oersted. The circuit of the oscillator is in Fig 2; the frequency is varied by a motor-driven tuning capacitor. Fig 3 is the stabilizer circuit and consists of a high-speed loop using  $\mathfrak{I}_{11}$  and  $\mathfrak{I}_{12}$  and a low-speed loop using  $\mathfrak{I}_{13}$ ,  $\mathfrak{I}_{14}$  and  $\mathfrak{I}_{10}$ , both loops feeding control windings on a EMU-25 electromechanical amplifier. Fig 4 shows the field sweeping circuit  $(J_1-J_{13})$  and the timer  $(J_{14},J_{16}-J_{21})$ . The sweep circuit operates by comparing the output of the highfrequency oscillator with a harmonic from a stable multivibrator and halting the sweep when coincidence The heart of the timer is a crystal controlled 100 kc/s source. Fig 5 is the circuit of the integrator which measures the rate of counting coincidences. Fig 6 gives an example of a typical result, the gammaspectrum of Co60. The author thanks G.V. Danilyan, N.V. Lazarev and V. I. Naumkin for assistance. There are 6 figures, 1 table and 6 references, 2 of which are Soviet and 4 English.

SUBMITTED:

February 12, 1959

Card 2/2

S/089/60/009/003/006/014 B006/B063

AUTHORS:

Burgov, N. A., Danilyan, G. V., Korol'kov, I. Ya.,

Shterba, F.

TITLE:

The Camma Spectrum of the TBP(TVR) Reactor 19

PERIODICAL:

Atomnaya energiya, 1960, Vol. 9, No. 3, pp. 214-215

TEXT: The authors of the present paper used a gamma spectrometer of the "Elotron"-type to measure the spectrum of gamma rays emerging from a radial hole of the TVR reactor. The geometry of the experiment, which is briefly described in the introduction, is schematically represented in Fig. 1. Fig. 2 shows the entire measured spectrum (resolution of 1.25 per cent for  $E_{\gamma} \ge 2$  MeV). The peaks are numbered according to the numbering of

the lines in the table. The second column of this table gives the energies of the various lines in Mev, and the values enclosed in brackets indicate the errors of the last places. The third column gives the relative intensities of the lines (accurate to about 10 per cent), and the fourth column gives the various possibilities of their identification. Individual lines were identified from data of Ref. 3. The fourth column further gives the

Card 1/2

The Gamma Spectrum of the TBP(TVR) Reactor

S/089/60/009/003/006/014 B006/B063

elements emitting a certain line. The figures beside the symbols of the elements correspond to the numbering of the lines from Ref. 3. Altogether, 45 lines are considered. Fig. 3 shows the gamma spectrum related to uniform intervals  $\Delta H_Q$ , taking in consideration the efficiency of the spectrometer as well as of the absorption of gamma quanta by the neutron filter. Specific features of several lines are briefly discussed, and comparisons are made with the results of other authors. Thus, for example, it was not possible to detect the line described in Ref. 6, which has an energy of 4.062  $\pm$  0.010 Mev and an absolute intensity of 7 per cent (gamma radiation from neutron capture of  $U^{238}$ ). It might be identical with a line of 4.050 : 0.015 Mev, which was found by the authors. The last neutron in 0239 has a binding energy of  $4.63 \pm 0.15$  MeV, which is in good agreement with the gamma line No. 25 (4.640  $\pm$  0.015 MeV). If 0239 is assumed to be the emitter, the absolute line intensity amounts to 1% per capture. This value agrees with the results of Ref. 6 where this line was not observed. A considerable part of the gamma spectrum of the reactor remains unresolved, obviously due to gamma rays from neutron capture in U235 and U238. and from fission events. There are ! figure, ! table, and 8 references: 5 Soviet, 2 US; and 1 Canadian. SUBMITTED: February 24, 1960

Card 2/2

1,0871

s/048/62/026/009/006/011 B125/B186

2.1.2 500

Danilyan, G. V., and Korol'kov, I. Ya. AUTHORS:

Energy spectrum of the internal conversion pairs arising

in the thermal neutron radiative capture in Gd TITLE:

Akademiya nauk SSSR. Izvestiya. Seriya fizicheskaya, v. 26,

PERIODICAL:

no. 9, 1962, 1164-1168.

The energy spectrum of the internal conversion pairs was taken with a magnetic spectrometer. The thermal neutron beam (108 cm 2 sec 1) of the horizontal channel of a heavy-water reactor was made incident on an emitter (aluminum foil with evaporated metallic gadolinium). This measuring apparatus was controlled via the thermal neutron capture y-radiation in C1. With increasing energy Ey the number of internal conversion pairs at first increases rapidly, then more slowly. A distinct peak of coincidences (intensity 0.5 pulses/min) occurs at Ey = 6.74 Mev.

For the coincidences I -III and II - IV this peak was weaker than the background of the random coincidences (0.5 pulses/min.) by at least one

Card 1/2

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-8

ANTHOR: Pavlov, V.S.; Danilyan, G.V.; Korol'kov, I.Ya.

TITLE: Rofinement of the decay scheme for In116 /Report of the Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev from 25 January to 2 February.

1963/ SOURCE: AN SSSR, Izv, Seriya fizicheskaya, v.27, no.7, 1963, 895-899

TOPIC TACS: isotope activation, nuclear spectrometry, decay schemes, In 116

ABSTRACT: The primary purpose of the work was to evaluate the feasibility of using a closed loop activation system for studing the decay of short-lived nuclides by means of a magnetic gamma-spectrometer, in view of the fact that magnetic recoil spectrometers are characterized by high accuracy for obtaining energy and intensity values, but have the drawback of low efficiency, so that in the case of short-lived isotopes several activations are necessary to study the full spectrum. The activation loop consisted of two stainless steel tubes - one used as the source, the other located in the neutron flux near the core of a heavy-water reactor - a centrifugal circulating pump, an expansion chamber and appropriate stainless steel connecting tubing. The loop geometry was such that the irradiation time was about 20 sec; the transit time from irratiation tube to source tube about 8 sec; the full cycle

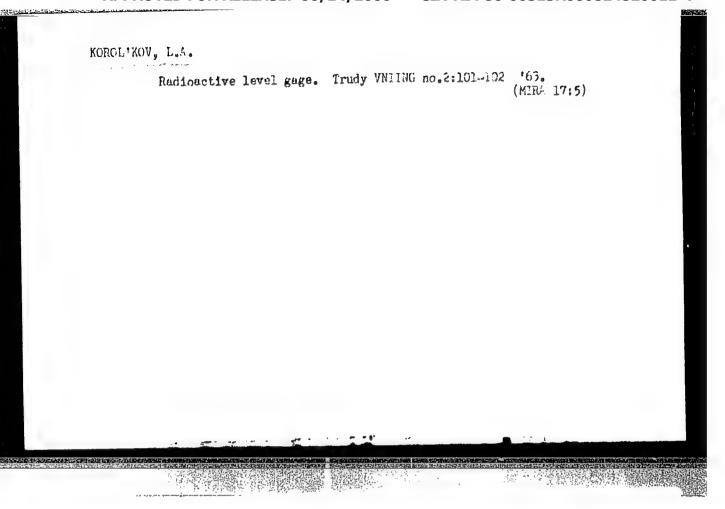
Card 1/3

L 17855-63 ACCESSION NR: AP3003692

time 50 sec. The total volume of the system was about 5 liters. In 115 was selected for the test experiments; neutron capture by this isotope results in formation of In 116 in the ground state (T = 13 sec) and an isomeric state (T = 54 min). The material was circulated in the activation loop in the form of a water solution of In (NO3)3 (150 g per 5 liters water solution). The neutron and gamma background was attenuated by one B<sub>4</sub>C and 10 steel blocks with a total length of 1500 mm. The gamma-ray spectrum of In 116 was measured in the range from 0.7 to 1.8 MeV in 13 keV steps (10 min counting at each field value). The 13-sec activity was distinguished by damping reactive reactor for 5 min intervals. The energies and intensities of the detected gamma-rays are tabulated together with the energy values reported by other authors. A refined decay scheme is presented (see Enclosure). "In conclusion we take this opportunity to thank N.A.Burgov for useful discussions and A.I.Zubkov and G.V.Rotter for assistance in the work." Orig.art.has: 1 formula, 4 figures and 1 table.

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki Goskomiteta po mirnomu ispol'Zevaniyu atomnoy energii SSSR (Inst. of Theoretical & Experimental Physics, State Committee on Peaceful Uses of Atomic Energy, SSSR)

SUBMITTED: CO SUB CODE: NS, SD Card 2/3 DATE ACQ: 02Aug63 NO REF SOV: 002 ENCL: 01 OTHER: 007



### KOROL'KOV. M.

Incomprehensible indifference. Prom.koop. 14 no.6:34
Je \*60. (MINA 13:7)

1. Starshiy inzhener otdela trudovogo ustroystva invalidov Rospromsoveta.

(Home labor) (Handicapped—Imployment)

BR

3/123/62/000/006/001/018 A004/A101

AUTHORS:

Rubanovich, Ya. G., Korolikov, M. F.

TITLE:

Plastics used in the manufacture of blades of rotors of pneumatic

machines

PERIODICAL: Referativnyy zhurnal. Mashinostroyeniye, no. 6, 1962, 22. abstract

6A147 ("Gorn, Mashiny i avtomatika, Nauchno-tekhn, sb.", 1961,

no. 3 (20), 127-129)

The authors present the results of wear tests of blades of rotors of pneumatic machines manufactured from the following materials: textolite, textolite crumbs, fiber, asbestos-textolite, glass textolite, CRAM(SVAM) glass plastic, etc. The machine rotor rotation speed attained 5,000 rpm. Textolite and asbestos-textolite blades were additionally tested at 7,000 - 7,500 rpm. It was found that the wear of the asbestos-textolite blade edges is the least during friction on east iron stators. At 7,000 - 7,500 rpm the wear of asbestostextolite blades is by 3.5 times less than that of textolite blades. The cost price of such blades is by 35% lower.

[Abstracter's note: Complete translation]

Card 1/1

RUBANOVICH, Yakov Grigor'yevich; KOROL'KOV, Mikhail Fedorovich; MEKINULOV, R.D., red.

[Technical and economic bases of the service life of manufactured articles] Tekhniko-ekonomicheskoe obosnova-nie srokov sluzhby izdelii. Leningrad, 1964. 25 p. (MIRA 17:11)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000824820012-4"

KOROL'KOV, N., polkovnik

On the terrain around Moscow. Starsh.-serezh. no.12:16-18 D :61. (MIRA 15:3)

KOROL'KOV, N., polkovnik (Belorusskiy voyennyy okrug)

Sergeants of the first rifle company. Starsh.~serzh. no.3:2-3
Mr 162.

(Russia—Army—Noncomissioned officers)

(Russia—Army—Noncomissioned officers)

;	Pneumatic bench clamps. Mashinostroitel no.6:25 Je '60. (MIRA 13:8)  (Pneumatic tools)	

22 (1) AUTHOR:

Korol'kov. N.

SOV/27-59-2-23/30

TITLE:

On a Friendly Visit (S druzheskim vizitom)

PERIODICAL:

Professional no-tekhnicheskoye obrazovaniye, 1959, Nr 2,

p 32 (USSR)

ABSTRACT:

A group of instructors and master-foremen of the Bobruyskoye uchilishche mekhanizatsii sel'skogo khozyaystva Nr 8 (Bobruysk School of Agricultural Mechanization Nr 8) visited the most advanced schools in the same field in Lithuania and Latvia to exchanging experience. The teachers familiarized themselves with training in the Lithuanian School of Agricultural Mechanization Nr 10 in Rasinyay and the Priyekule School of Agricultural Mechanization Nr 2 in Latvia which is one of

the best schools in the country.

Card 1/1

KOROL'KOV, N., polkovník

Laying the first track, Voen. znan. 41 no.8:12-13 Ag '65. (MIRA 18:7)



KOROL'KOV, N., polkovnik

The tank is a terrible weapon. Voen.znan. 39 no.9:5-6 S '63.

(MIRA 16:10)

Pneumohydraulic machine for broaching holes. Mashinostroitel' no.5122 My '60. (MIRA 14:5)

(Broaching machines)

Benefactress of Leningrad. Starsh.-serzh. no.11:34 0[i.e. N] '61. (MIRA 15:2)

KOROL'KOV, N.

Training the masters of mechanical milking. Prof. tekh. obr. 20 no.5:21-22 My \*63. (MIRA 16:7)

(Milking-Study and teaching)
(Milking machines)

# "APPROVED FOR RELEASE: 06/14/2000

# CIA-RDP86-00513R000824820012-4

L hhl37-66 EVT(m)

ACC NR: AP6021927 (N) SOURCE CODE: UR/0017/66/000/003/0008/0009

37

34

AUTHOR: Korol' kov. N.

ORG: Far Eastern Military District (Dal' nevostochnyy voyennyy okrug)

TITLE: Fast amphibious landing operation

SOURCE: Voyennyye znaniya, no. 3, 1966, 8-9

TOPIC TAGS: amphibious landing, auxiliary ship, armored carrier, military tank, air force training, airborne landing, nuclear weapon, military training /T-101 transport ship

ABSTRACT: The author describes in detail an amphibious landing on a cape jutting out into the Pacific Ocean, which was carried out during military training exercises by soldiers of the Far Eastern Military District. All types of troops took part in this operation, and the commanders reportedly were pleased with the results. The amphibious landing operation was commanded by Lt. Colonel Sergey Rozhkov. No losses were suffered. A reinforced subunit of motorized infantry acted as a naval landing force. Guns, mortars, armored carriers, and tanks were loaded onto ocean-landing force, which then sailed for a point many nautical miles away, where the

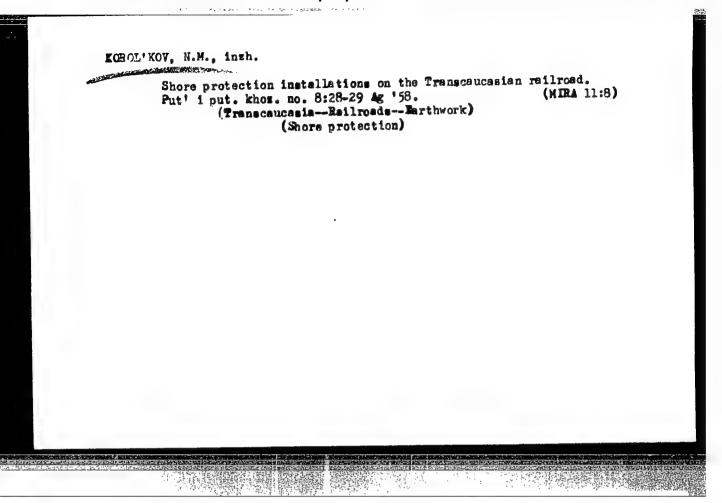
**Card** 1/2

Eashin_[Initials Not Given], [Stalingrad], Group Processing as the Basis for the Machanisation and Automation of Production	**************************************	Strutial nyr Zerod (Formesh Nachhe-Shilding Plant)  Retymaddy, S.A. [Leningrad], Grup-Processing as the Sasis for the Mide Introduction of Automatic Lathes in Small-Lot Production (From Experience Calmed in the Operation of Calle Calculating Nachines in Leningrad Instru-manifestating Plants)	Obling Pers on Tarious Petal-Cutting Machine Code (From the Experience of the Light Various of False)  Ordinal Tario (Restormen-Derma). Ordin Machining of Parts on Various Metal-Cutting Machine Tools  Only Machine Tools	in the Production of Articles of Catroduction of Group Processing 67 in the Production of Articles of Catroduction of Group Processing 67 PART II. PROMISSION HOUSING AD ASSOCIATE PROCESSES  Backelink I.G. [Eigen] Termination of the County Management of the County Managem	Table Of Commerce (Chalagrad) Group Nothed of Proceeding Parts by Forging (From the Work Experience of the "Falkant" Plant)	Conference on Group Processing in the Northes and Instrument Industries, and Foresizes and Conference on Group Processing in the Northes and Instrument industries, and I Foresizes all Conference was called by a featiffly and declarate postelles of the monitor and instrument industry, and instrument industry, and industry in introducing the grouping principle in processing. They discuss the basis twenth in development, and grouping principle in the basis of manimed continuous production. The designing of minimals is the basis of monitorial continuous processing, and moderate in the introduction of group-machining and the opposessing on warlow machine tools and into production of equipmentally processing or warlow machine tools and into production of factorial continuous processing are also treated. No personalities are considered. Financially processing are also treated. No personalities are monitored. There are no references.	FURNIST. This collection of articles is intended for technical paramet in ma- chine places, dealering repairation, and scientific research institutes. It may also be machine to article variety.	le page): S.P. "Etrafanor, Dose; Edas: A.S. Assrow, G Geor, P.V. Kamper, Canddan George, P.V. Assrow, P.A. Ra- commant Sciences: Masging Gr (Jeningred Dopartment) Gr (Jeningred Dopartment); T	Grupporays testhoologiys v menisostroyeti i pribarestroyeti (group-Processing Methods in the Vacaine and Instrument Industries) Massou, Vashgis, 1960.  JTS p. Errate ally inserted. 7,000 copies printed.	Veropuzzym erwskitaljy po grupporym tekhnologickasiim protessaa v omehinostropenii. ist. Leningrad, 1959	PRASE ) BOOK EXPLOYATION SOY/4754	the contract of the contract o	
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KOROL'KOV. N.M.

Efficient calculation methods for the straightening of crive . Put' i put'khoz. 8 no.8:33-35 '64. (MIR' 17:9)

1. Glavnyy inzh. sluzhby puti, g. Tbilisi.



Military of moderating short-radius curves on mountain railroads. Zhel.dor.transp. 40 no.11:49-51 M '58.

(Railroads--Curves and turnouts)

(Railroads--Curves and turnouts)

Wear of rails on sharp curves. Put' put.khoz. no.9:22-24
S '59. (MIRà 12:12)

1. Glavnyy inzhener sluzhby puti, g.Toilisi.
(Transcaucasia--Railroads--Rails)

KOROL'KOV, N.M.

Inclined working of stone quarries. Put' i put.khez. 4 no.11:31-32 H '60. (MIRA 13:12)

1. Glavnyy inshener slushby puti, g. Tbilisi. (Quarries and quarrying)

The control of the state of the

DANDUROV, Mesrop Ivanovich, prof.; KOROL\*KOV, Nikolay Mikhaylovich, inzh.; LIMAHOV, Yu.A., prof., retsenzent; STEPAHOV, Ya.I., inzh., retsenzent; KARAMYSHEV, I.A., inzh., red.; KHITROVA, N.A., tekhn. red.

[Maintenance and reconstruction of tunnels]Soderzhanie i rekonstruktsiia tonnelei. Moskva, Tranzheldorizdat, 1962. 185 p. (MIRA 15:11) 1. Chlen-korrespondent Akademii stroitel'stva i arkhitektury SSSR (for Dandurov). (Tunnels-Repair and reconstruction)

KCROL'KOV, N.M., inzh. (Tbilisi); ADRIANOV, Yu.A., dotsent (Tbilisi);

CHILINGAROV, D.O., inzh. (Tbilisi)

New method of quarrying. Put' i put.khoz. no.7:42-43'62.

(MIRA 15:7)

1. Vsesoyuznyy zaochnyy institut inzhenerov zheleznodorozhnogo transporta (for Adrianov).

(Georgia—Quarrie; and quarrying)

CHIBIZOV, G.A., inzh.; KOROL\*KOV, N.M., inzh., retsenzent; VOROTNIKOVA, L.F., tekhn. red.

[Maintenance of earth dams] Soderzhanie zemlianogo polotna. Moskva, Izd-vo "Transport," 1964. 258 p. (MIRA 17:4)

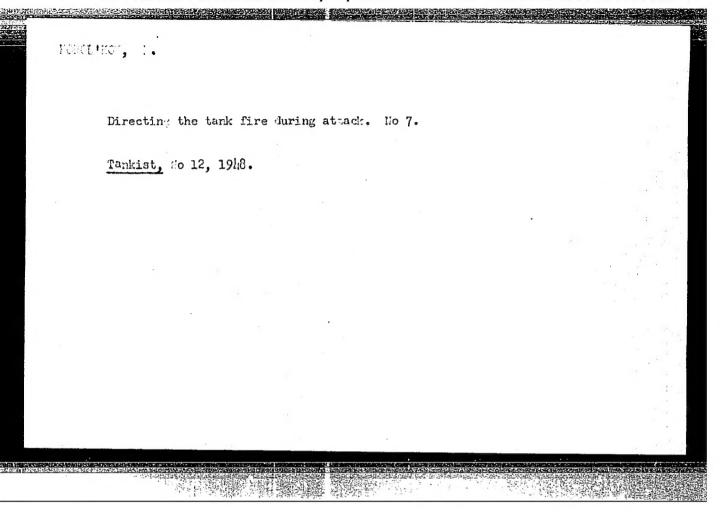
KOROLIKOV, D.M. (Iblinsh); YELLASHVILL, M.M., ditabut (Iblinsh)

Guardrails provent the sidewear of rails. Put' i put. khoz. 9 no.9:

13-15 165.

1. Glavnyy inzh. słuzbby polit. Zakavkazaknya doroga (for Korolikov). 2. Gruzimskiy politekhnicheskiy Institut (for Yeziashvili).

No. M. To., To. 12, 1918.



KOROL'KOV, N., gvardii polkovnik.

Armored and mechanized troops of the Soviet Army. Voen. znan. 29 no.9:8-9
S '53.

(Tanks (Military science))

KOROL KOV N.

KORNYUSHIN, P., gvardii polkovnik; KOROL'KOV. N., gvardii polkovnik; HUDIN, M.Z., podpolkovnik, redaktor; KALACHEV, S.G., tekhnicheskiy redaktor.

[Soviet tank crew members; brief outline of the development and battle experience of armored and mechanised troops of the Soviet army] Sovetskie tankisty; kratkii ocherk rasvitiia i boevogo puti bronetankovykh i mekhanisirovannykh voisk Sovetskoi armii. Moskva, Voen. izd-vo Ministerstva oborony SSSR, 1954. 126 p. (MLRA 7:12)

(Russia--Army)(Tanks(Military science))(Mechanisation, Military)